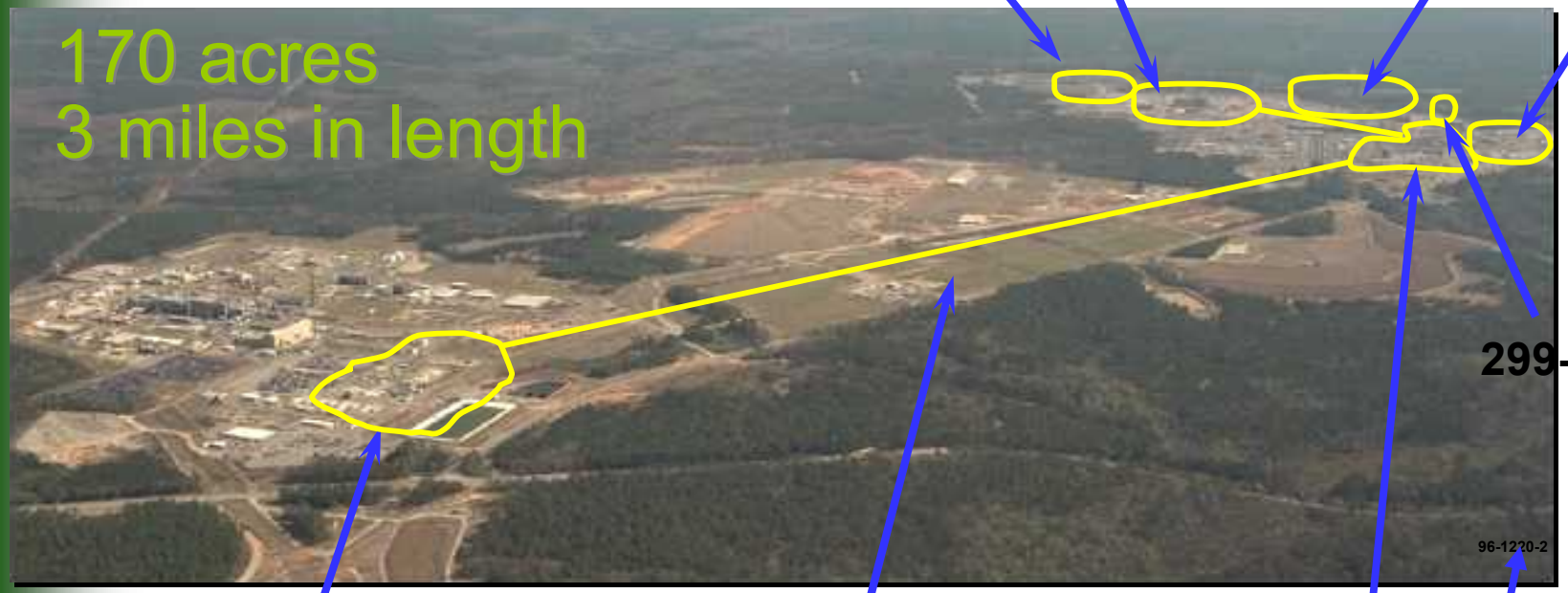
LIQUID WASTE OPERATIONS
SAVANNAH RIVER SITE

DWPF Overview

Steve Wilkerson

Facility Manager

High-Level Waste Facilities



F Tank Farm

- 22 tanks
- 1 evaporator (2F)

Inter-Area Line (2.2 miles)

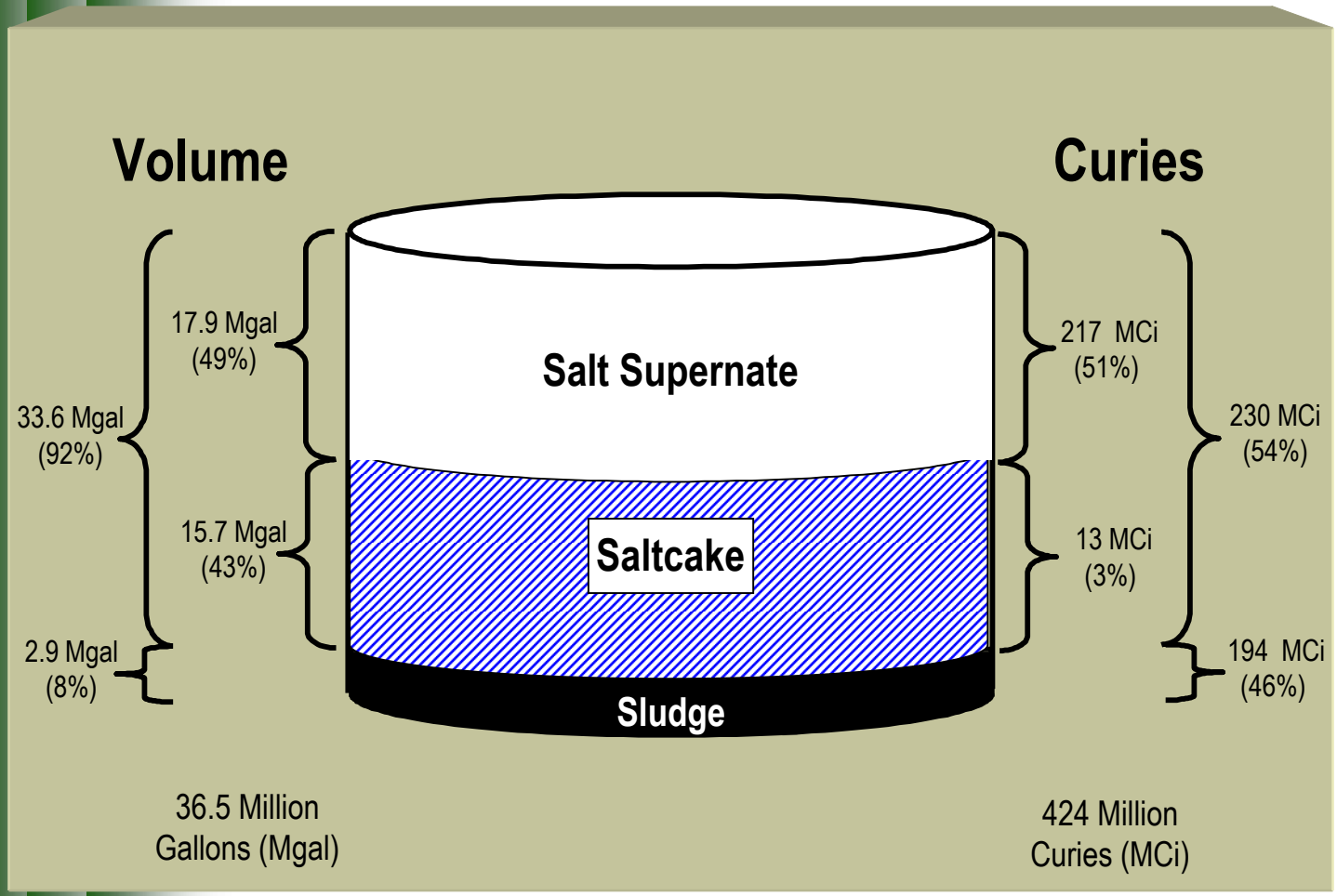
- Pump pits at each end
- Diversion boxes at each end and at high point in the middle

H Tank Farm

- 29 tanks
- 2 evaporators (2H & 3H)
- Most volume reduction and all pre-treatment occurs in H Area

LIQUID WASTE OPERATIONS
SAVANNAH RIVER SITE

SRS Composite Inventory



Inventory values as of 3/31/2006

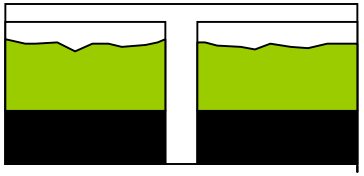
LIQUID WASTE OPERATIONS
SAVANNAH RIVER SITE

DWPF

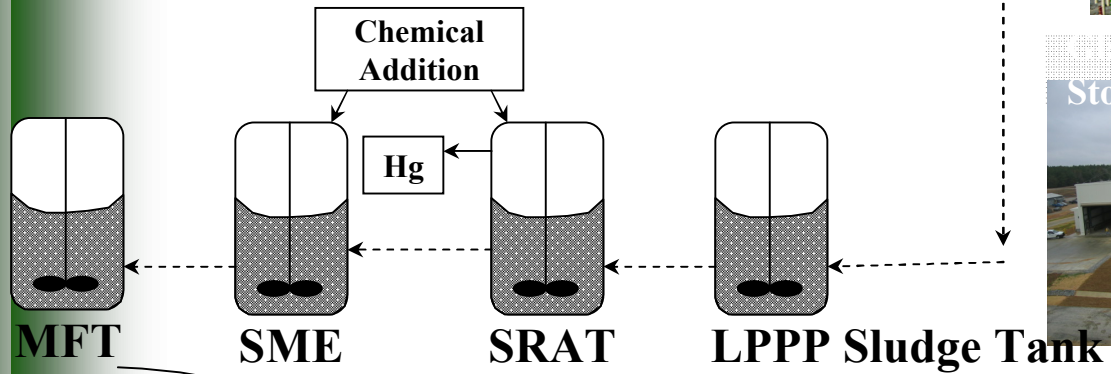
DWPF receives waste for processing from H Tank Farm. The waste is "vitrified" and poured into stainless steel canisters that are sealed and decontaminated.

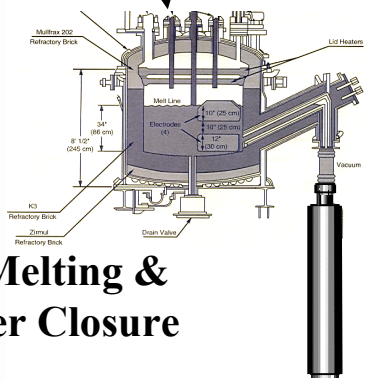
Vitrification Process

Tank Farm



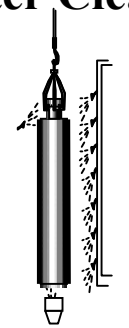
DWPF Chemical Processing



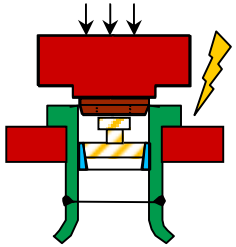


Glass Melting &
Canister Closure

Canister Cleaning

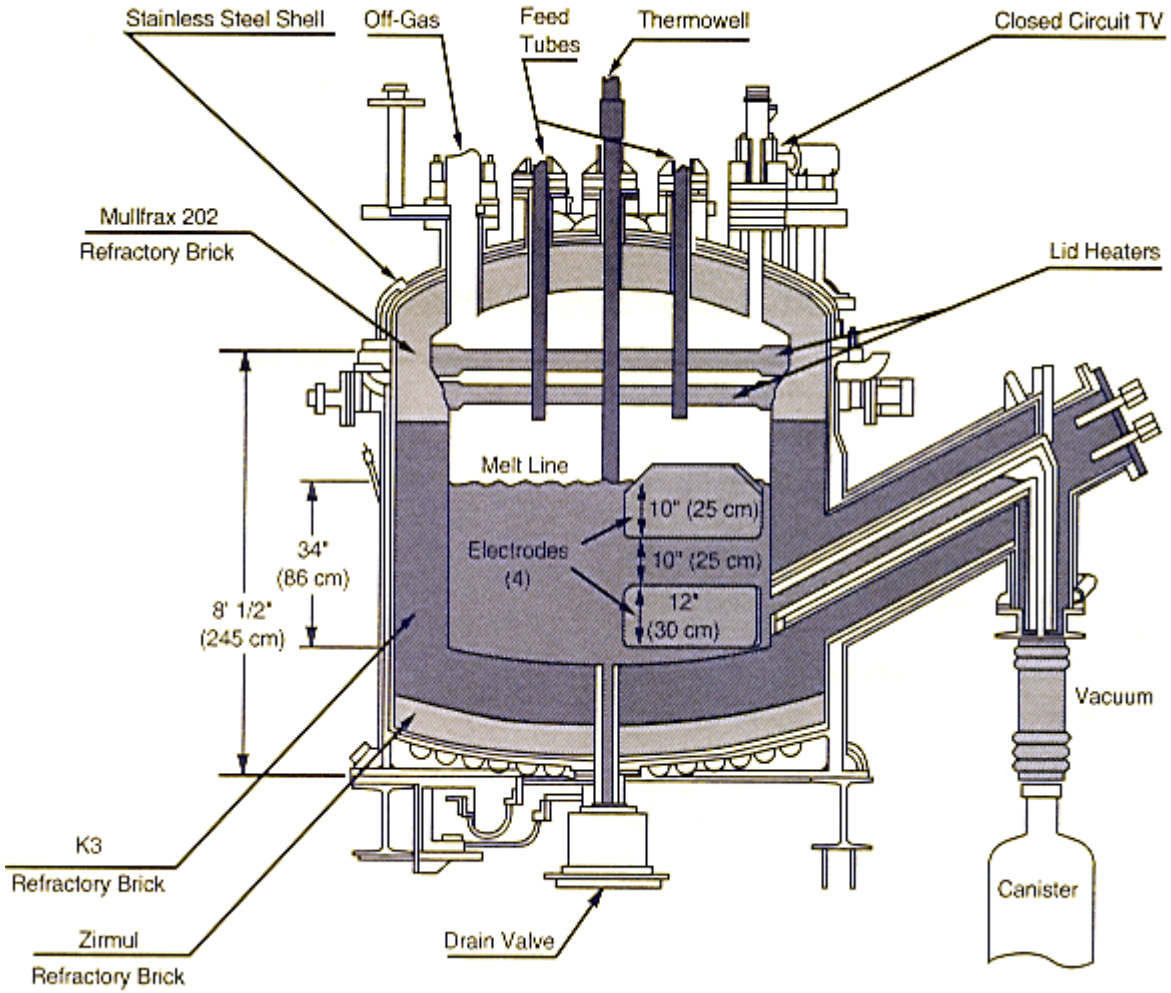


Welding

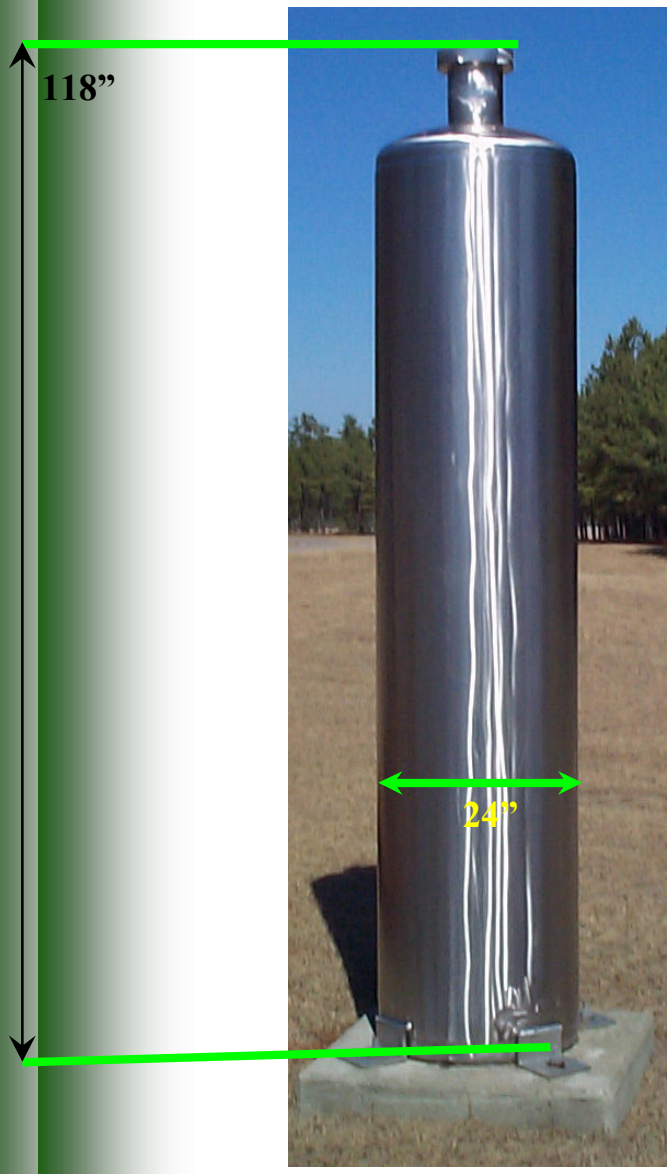


LIQUID WASTE OPERATIONS
SAVANNAH RIVER SITE

Melter



DWPF Canister



Filled Canister

Materials: 304L Stainless Steel

Empty Weight: 1150 lbs.

Glass Weight: 4000 lbs.

LIQUID WASTE OPERATIONS

Shielded Canister Transporter

- Canisters
  - Filled
  - Cleaned
  - Sealed . . .

Ready for Transport

LIQUID WASTE OPERATIONS
SAVANNAH RIVER SITE

Glass Waste Storage Buildings

Glass Waste Storage Building #1 provides earthquake-resistant, safe interim storage for radioactive waste canisters

Glass Waste Storage Building #2 provides interim storage for an additional 2500 canisters